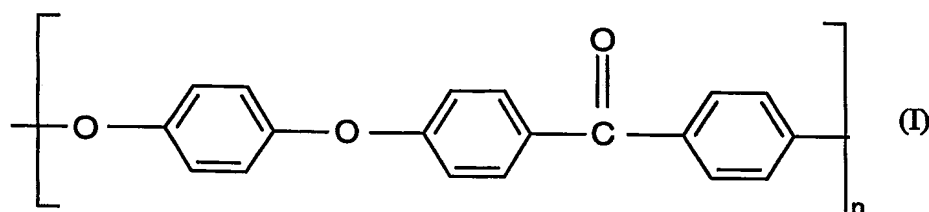


CLAIMS

1. Needle constituted of a cylindrical body (1, 14) which is extended along a longitudinal axis X-X' at least one end (2) of which is beveled, characterized in that it is made of a polyarylethercetone polymer of the following formula (1):



2. Needle according to claim 1, characterized in that the polyarylethercetone polymer of formula (1) further comprise fillers selected from carbon fibers, glass fibers, graphite granules, polytetrafluoroethylene (PTFE) granules, black carbon granules and mixtures of two or more of the above.

3. Needle according to claim 1 or 2, characterized in that it further comprises at least three reinforcement wires (3, 4, 5 ; 6, 7, 8, 9 ; 10, 11, 12, 13) embedded in the polyarylethercetone polymer of formula (1) and extending parallel to longitudinal axis X-X', and being even-tensioned throughout the length of hollow body (1, 14) and distributed such that each pair of wires (3, 4 ; 4, 5 ; 3, 5 ; 6, 7 ; 7, 8 ; 8, 9 ; 7, 9 ; 10, 11 ; 11, 12 ; 12, 13 ; 10, 13 ) defines an identical center angle.

4. Needle according to any one of claims 1 to 3 characterized in that the said at least three wires (3, 4, 5 ; 6, 7, 8, 9, 10, 11, 12, 13) are made of 316 stainless steel.

5. Needle according to any one of claims 1 to 4, characterized in that the said set of at least three wires (3, 4, 5 ; 6, 7, 8, 9) are of circular section.

6. Needle according to any one of claims 1 to 4, characterized in that the said set of at least three wires (10, 11, 12 ; 13) are of elliptical section.

7. Needle according to any one of claims 1 to 6 characterized in that the hollow body (1, 14) is of circular section.

8. Needle according to any one of claims 1 to 7 characterized in that the hollow body (14) is beveled at both ends.

5 9. Injection syringe made up:

- of a piston,

- of a pump body equipped with an end fitting for fitting of an injection needle, and

- an injection needle,

10 characterized in that it is equipped with a needle according to any one of claims 1 to 7.

10. Syringe according to claim 9 characterized in that the pump body equipped with its end-fitting and the piston are made up of a polyarylethercetone polymer of formula (1).

15 11. Syringe according to claim 9 or 10, characterized in that the pump body equipped with its end-fitting and the piston are made of a polyarylethercetone polymer of formula (1), comprising fillers selected from glass fibers, carbon fibers, graphite granules, polytetrafluoroethylene (PTFE) granules, carbon black granules and mixtures of two or more thereof.

12. Recipient connector constituted of:

- of a first hollow section (17) suitable for fitting around neck (18) of a first recipient (15),

- of a second hollow section (19) suitable for fitting around neck (20) of a first recipient (16),

25 the first hollow section (17) and the second hollow section (19) being separated from each other by a horizontal wall (21) and

- a means of perforation (14) of elastic capsules (22, 23) of recipients (15, 16),

30 characterized in that the means of perforation (14) is a needle according to claim 8 located at the center of the horizontal wall (21).

13. Connector according to claim 12 characterized in that the second hollow section (19) further comprises a port (24) for admission of a gas.

14. Connector according to claim 12 or 13 characterized in that the first hollow section (17) further comprises means for attachment (25) of the connector to neck (18) of recipient (15).

5 15. Connector according to any one of claims 12 to 14, characterized in that the first hollow section (17), the second hollow section (19) and the separating wall (21) are made of a polyarylethercetone polymer of formula (1).

10 16. Connector according to claim 15, characterized in that the polyarylethercetone polymer of formula (1) comprises fillers selected from carbon fibers, glass fibers, graphite granules, polytetrafluoroethylene (PTFE) granules, black carbon granules and mixtures of two or more thereof.